

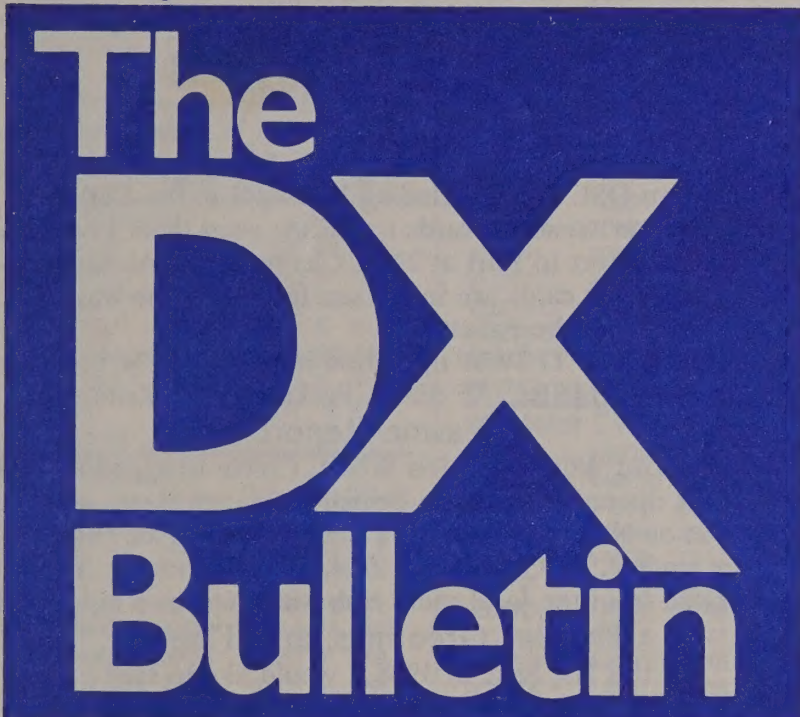
Mellish Reef - VK9Z The **VK9ZM** DXpedition (OC-72) is set for Jan. 8-16, 160-6 meters, CW, SSB, and RTTY. No WARC band operation. QSL NM2L.

American Samoa - KH8 KH8/IK2GNW will be on from (OC-45) Dec. 27-Jan. 8, SSB only, 10-80 meters (no 160 operation.) Watch 28500, 21200, 14200, 7050, and 3790 kHz. QSL to home call sign.

Netherlands Antilles - PJ John Thompson W1BIH starts his annual Curacao (SA-06) operation as **PJ9JT** Jan. 10, and continuing into April. He'll be very active as always, on 160-6 meters, and satellite. QSL all contacts to W1AX. Please don't send cards to John's home QTH nor to the PJ bureau.

Canary Islands - EA8 *DXPress* reports that **EA8/DJ3OS** will continue his operation from (AF-04) through the end of the year. He has been very active on 6 meters. QSL to his home call, or via the DARC bureau.

Edited by Chod Harris VP2ML



America's Premier Weekly Amateur Radio Publication

Sri Lanka - 4S7 *Japan DX News* reports that **JA1MLV**, **JG1PUO**, **JG1DGZ**, and **JA1UXC** will operate as **4S7EA** Dec. 30-Jan. 3 from (AS-03).

Turks and Caicos - VP5 Look for **K2PZ**, **N2FGE**, and **KN2N /VP5** (NA-02) Feb. 4-11, CW, SSB, and RTTY. QSL home calls, with SASE.

India - VU Three German DXers will operate from India in January, concentrating on the low bands. Look for **VU2INK** (DF5UG), **VU2BMS** (DL2GAC), and **VU2NFG** (DJ9RB) Jan. 7-8, 14-15, and 21-22. For Europe they'll be on 1823.5 kHz, listening 1832, and 3502 and 7002 kHz, listening up 2, 0045-0110Z. On SSB, Europe should try 3799.5 at 1900Z, and 7099.5 at 1700Z. US DXers should watch the same frequencies 1145-1330Z. Also try 14275 kHz at 1400Z, 21275 at 1000Z, and 28575 at 0800Z. QSL home calls after Feb. 1.

DXCC/DXAC News

The DX Advisory Committee has unanimously recommended that **Rotuma 3D** be added to the DXCC list as a separate country, the first such coming out of Rule 2 of the recently revised DXCC rules. The Awards Committee at ARRL Hq. will vote on the issue before the end of the year, and will likely confirm the DXAC recommendation. Effective date for adding Rotuma to the DXCC list will be the start of the **3D2XX** operation in October.

At the same time, the DXAC voted against adding Okino-Torishima 7J to the DXCC list, by a 2-1 margin. Baldwin's Reef will not be resurrected at this time.

Also, the DXCC desk has received appropriate documentation for **DJ6SI's 5UV386** operation, and it is now accepted for DXCC credit for Niger.

Shortly Noted

- **SM7CRW** wants to finish up his 5-Band WAS, and needs AK ID NV NM UT VT and WY on 40 meters. He checks into **KD0JL's** net on 7160 kHz 08-0900Z. Any help?
- The Colvins have moved their Yasme DXpedition to Malta, and are active as **9H3JM**. Try 20M SSB 15-1700Z.
- **YL2RG** until Jan. 15 celebrates 70 years of Latvian independence.
- **8P9EM** is operated by **G3VBL** to Jan. 2. He's been active on 10 M SSB, and promises 160M activity. QSL home call.
- Regulars (call, frequency or band, UTC): **VS6DO** 1826 or 3504 1145-1200Z (East Coast); **XF1C** 1831 07 or 1300Z, and 3507 1100Z; **4X6UJ** 3795 0230Z; **5B4OA** 3795 0200Z; **A92BE** 3795 0130Z; **OD5VT** 3793 0350 or 2100Z; **BV2A** 40M CW 14-1500Z (West Coast); **BY4RB** 7006 1200Z; **HZ1AB** 7002 23-0100Z; **SU1EE** 7026 or 7005 0000Z and 0430Z, and long path to West Coast at 1500Z; **TU4CO** 7010 0700Z; **VP8BUO** 7005 22-2300Z; **3B8CF** 14035 0230Z; **4K0D** 14032 2300Z; **4S7TP** 14010 0130Z; **RV0YF** (Zone 23) 20M CW 0130-0300Z; **TU2JL** 20M SSB 0400Z; **ZD8BOB** 15M CW 2100Z; **S92LB** 21289 2030Z; and **9Q5DX** 10M CW 1500Z.
- **6 meters** has been great in December, including opening well after local sunset in Europe. In addition to the stations in Bandpass this week, **G3GJQ/5N0** and **J52US** have been very active. Listen on 28885 kHz for 6-meter news.

Islands On The Air

- **Chandeleur Is. (NA-89)** will be on for the first time Jan. 13-15, with **K5KR**, **N5GPP**, **WB5SSD**, **K5MK**, **K5LM**, and **W5ZPA** of the Delta DX Asso. They'll be in the IOTA net on 14260/21260 1300Z on Sat. and Sun., and usual DX frequencies at other time. Watch for **W5ZPA** on CW, **K5KR** on SSB, and **WB5SSD** on 6 meters. QSL home calls with SASE.
- The Pacific IOTA net on 21250 at 0000Z Friday and Saturday attracts such goodies as **JH6DTX** on (AS-32), **JH6PMD** on (AS-40), and **YB9LA** on (OC-22).
- **RA0BB** on (EU-35) likes 7006 kHz at 0400Z.
- **UA1PAS** is on Kolguyev Is. (EU-85).
- **AL7DX** on Fox Is. (NA-59) likes 14260 kHz at 1900Z.
- **KX6LJ** is on (OC-87) Enewetak Atoll until Jan. 10.
- The new edition of the Islands On The Air directory is available from The DX Bulletin for \$3, postpaid.

Propagation Forecast and Historical Data

Day	Forecast	27 Days Before	55 Days Before
<u>December</u>			
23	High Normal	11/26 142 13/18 2	10/29 156 02/09 0
24	High Normal	11/27 145 09/11 2	10/30 167 03/09 3
25	Above Normal	11/28 142 09/10 2	10/31 161 11/15 2
26	Above Normal	11/29 143 07/09 1	11/01 157 07/11 2
27	Below Normal	11/30 140 31/29 4	11/02 167 19/24 4
28	Above Normal	12/01 155 07/10 1	11/03 167 24/25 3
29	High Normal	12/02 154 16/17 4	11/04 162 07/09 2
30	High Normal	12/03 151 19/18 4	11/05 169 08/12 2
<u>January 1989</u>			
1	Above Normal	12/04 146 10/11 1	11/06 165 14/14 2
2	Above Normal	12/05 163 02/06 1	11/07 155 17/17 3
3	Above Normal	12/06 164 02/06 0	11/08 146 13/13 3

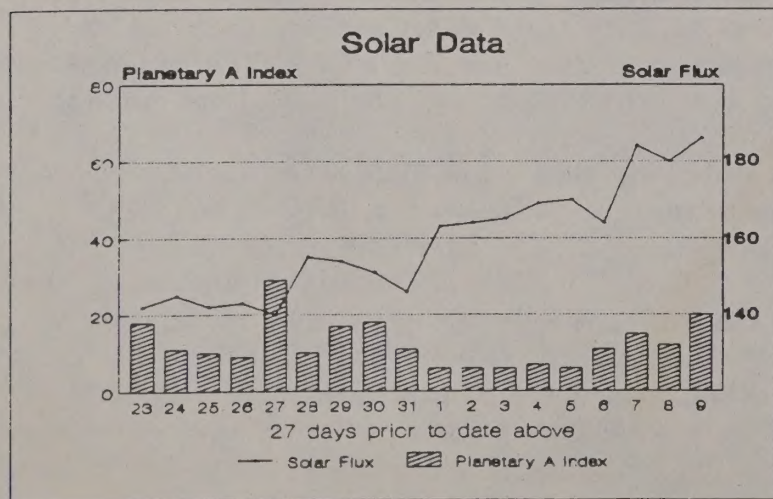
Propagation Watch

In Issue 466, this propagation forecaster warned of a possible sudden increase in solar activity, accompanied with active geomagnetic fields. Although this was not expected on the basis of 27- and 55-day previous data, the crystal ball was right on this time, as solar flux sky-rocketed to a new Cycle 22 high of over 250! The last time the solar flux was that high was six years ago, in December, 1982.

Although this dramatic increase in solar activity is welcome news to DXers concerned over the recent stagnant flux figures, the increase is not without its negative side. The solar regions (groups of sunspots) that boosted the flux also produced a rash of flares, which caused the geomagnetic activity to rise to major storm levels.

A series of flares Dec. 16-18 pushed the planetary A index high enough to eliminate the usually-productive long path and polar path. Increased absorption meant low-band DXers were better off going to bed than fighting weak signals and high noise. Finally, the sudden boost of flux was not enough to push maximum usable frequencies (MUFs) much higher, at this time of seasonally low MUFs.

If solar activity returns to more normal levels, DXers should again check out the long path on 20, 30, and 40 meters, to the west and south within a hour or two of local dawn. Europe is especially loud into the West Coast on 40 meters at local sunrise. 80 meters may also be open at this time. The higher bands are open during the daylight hours, but tend to close around local sunset. Watch the 20-meter long path in the early evening, as well as the polar path, for deep Russians, India, etc. And keep a ear on 6 meters, as mid-December has seen some excellent openings on 6, thanks to the increase in solar flux.



The DX Bulletin's Publishing Schedule

With this Issue, your hard-working editor takes his annual Christmas "vacation." There will be no Issue dated Dec. 30. The next Issue, number 469, will be dated Jan. 6, 1989. Meanwhile, the first issue of *The DX Magazine* will be mailed to you on Dec. 21. You should receive it around the first of the new year.

Merry Christmas and Happy New Year to all *The DX Bulletin* subscribers around the world, and a special welcome to the 1,100 new readers who joined the rapidly-growing *The DX Bulletin* family in the past two months. 1989 promises to be a great year for DX.

Incommunicado, Again

For the second time in a month, *The DX Bulletin's* phone went unanswered for an extended time. This time it was 80+ mph winds that knocked out power to our ridge-top offices for two days, Dec. 14-15. Although the phones were working, the answering machines were not, and your editor was huddling around the wood stove, praying for his antennas, rather than freezing in the shack. (The antennas survived, except for the 6-meter beam that ended up in a tree, just went 6 started hopping!) Our apologies to anyone who tried to reach us during the power outage.

QSL Information

Karl Renz K4YT has returned to Washington DC after his stint in the Philippines. He's resuming the handling of his own QSL cards, including K4YT/4I in the CQWW SSB. So don't send his cards to KE3A; send them instead to W2TK or direct to Karl at 29 E. Chapman St., Alexandria VA 22301. His cards are in the sea freight on the way back to the states, so be patient.

QSL the TF3WW operation in CQWW CW to Erkki Korhonen OH4NRC, SF 58830, Parkumäki, Finland.

Yasme Report

Lloyd W6KG and Iris W6QL Colvin wrapped up their ZC4ZR operation from the British Sovereign Bases on Cyprus on Nov. 27, and moved over to Malta (see page 1.) They made 7,500 QSOs from ZC4, in 117 countries. They operated from the local radio club with their own equipment.

Holiday Greetings, and Thanks

In this last issue of 1988, I would like to take a moment to thank all those people who make *The DX Bulletin* possible every week. *The DX Bulletin's* office manager, Donica Hopkins, keeps your subscription files up to date, handles many of your requests for report forms and samples, and generally keeps the place from falling apart. Jim Cruik at AJ Printing somehow manages to print and fold the many thousands of copies of each issue on time every week, even on holidays. And Steve Aquilina of Buffalo Enterprises stuffs, labels, bundles, and sorts all those copies, and gets them to the post office without fail.

But even more important than the paid staff of *The DX Bulletin* are the unsung heroes whose call signs appear in the bottom right hand corner of page 4 every week: the contributors who supply the DX information. Without the help of those 100 or so DXers every week, these pages would be blank. So Merry Christmas and a Happy New Year to every *The DX Bulletin* reader, and a special thanks and wishes for good DX to those hundreds of contributors who make *The DX Bulletin* work every week! -Chod Harris VP2ML.

B . A . N . D . P . A . S . S

Key to Bandpass: Callsign, frequency, UTC, day of the month, state. * = long path. P = packet.
All "portable" calls listed with country of operation first, regardless of format used on the air.

RTTY

C56/	14085	2302	2	FL
6W6JX				
CO2BB	28095	1450	4	OH
DA2KY	28089	1730	13	CA
HP1AC	28092	2338	30	OH
LX1DA	28097	1523	8	OH
ON4QM	14096	2033	12	CA
SV5TS	14096	1655	5	NH
SV5TS P	21105	1600	11	OH
TF3EJ	28090	1612	4	OH
UB5ACU	14091	1625	9	CA
VP2MHD	21090	1555	3	OH
Y23NI	21089	1455	4	OH
YU3HR	21090	1620	9	CA
ZS6CBJ	14095	2050	10	OH

160 Meters

FM6BH	1831	0820	9	VT
HP3FL	1838	0320	11	MA
KH6CC	1832	0523	8	WA
KX6DC	1833	0620	7	WA
TA1KA/2	1832	0433	11	TX
VP2M/	1830	0520	10	WA
ND3A The Last Resort				
VS6DO	1826	1143	8	MA
XF1C	1830	0650	5	CA
XF1C	1830	1301	8	MT

80 Meters

CX4SB	3502	2328	15	FL
EA8BTO	3501	2330	5	IA
JA6LCJ*	3501	2155	11	MA
PY0FF	3502	0145	5	IA
UA0FM	3505	1203	30	MD
VS6DO *	3508	1123	8	PA
XF1C	3507	1101	16	PA
YJ8NJS	3505	1141	10	PA

75 Meters

4X6UJ	3795	0226	11	NH
5B4OA	3795	0204	13	MA
5U7/	3790	2315	14	CT
TU4BR				
9K2RA	3792	2245	15	PA
9M8PV *	3795	2142	11	MA
A92BE	3794	0130	9	MA
GU3EJL	3797	0119	12	MA
HK0HEU	3795	0308	12	MA
HP3FL	3799	1106	16	PA
HZ1AB *	3789	1515	10	BC
JA6XMM *	3799	2150	9	PA
JH1JPS	3799	1107	16	PA
OD5VT	3795	2110	11	MA
OD5VT	3792	0350	13	CT
OY9JD *	3789	1523	13	BC
T77T	3793	0534	15	MA
TZ6MG	3799	2242	14	CT
VK9NS	3798	1153	30	MD
ZS1RL	3797	0340	14	MA

40 Meters

3D2AG	7083	0715	13	NJ
3D2KK	7003	1418	10	CA
4S7/	7003	0125	12	FL
DK2SC				
4X6DT *	7071	0514	7	BC
5T5CK	7082	0800	13	NJ
7P8EG	7004	0329	11	MA
7X3DA	7019	0655	8	ON
9M2AX	7003	1424	12	CA
9M2AX *	7004	2300	7	AL
BV2A	7004	1405	11	CA
BY4RB	7008	1203	17	FL
HZ1AB	7002	2307	12	CT

LZ1KDP *	7004	1530	12	OR
OZ1FTE *	7007	1459	12	OR
PY0FF	7004	0028	12	FL
PZ1DV	7002	0120	12	FL
RA0BB	7007	0405	11	CA
RT0UM	7015	0600	4	NH
RV0YF	7007	1136	13	CT
RV0YF *	7006	1204	10	AZ

Zone 23

SU1EE	7026	0430	8	NY
SU1EE	7005	0004	9	NY
SU1EE *	7019	1510	12	ID
SV0CR	7003	2130	10	CT
T32AF	7002	0406	14	CT
TA1AR	7017	0036	12	FL
TA2AO	7004	0320	8	OH
TA4A	7003	0030	13	FL
TK5IU	7015	0329	12	MI
TU4CO	7009	2226	10	NY
TU4CO	7010	0644	11	CA
UA1OIL	7001	0450	13	CA
UA1OIL	7001	1200	8	MA

Franz Josef Land

UA9KM	7014	0340	7	VT
UG6GAW	7006	2125	6	FL
UG6GAW	7004	1408	7	OR
UG6GM *	7014	1526	10	ID
UP1BYC *	7007	1422	12	OR
UZ9AYA *	7007	1217	29	MD
VP8BUO	7006	2311	13	CT
VQ9QM	7007	2327	1	CT
VS6UP	7006	1409	11	CA
VU2TEC	7006	1218	10	NY
VU2TEC	7005	0110	11	IA
VU2TEC *	7006	1215	10	WY
YB0DPO	7001	1445	6	ID
ZF2NC/8	7003	0039	15	FL

20 Meter CW

3B8CF	14032	0235	7	FL
3B8DA	14026	0258	10	FL
3B8FQ	14010	0216	15	MA
4K0D	14034	2308	9	MT
4S7EA	14005	2212	13	MA
4S7TP	14010	0139	10	KY
9J2BO	14057	0246	11	FL
9K2RA	14015	1447	10	MT
9M2AX	14021	2355	8	FL
9M2AX *	14021	0005	6	MI
9M2DI *	14007	0054	8	NY
EA9KQ	14003	0245	1	FL
JT1T	14009	0145	3	OR
JY9SR	14027	0245	7	OR
PY0FF	14020	0320	7	OH
RV0YF	14021	0150	10	FL
ST2KR	14019	2121	2	NH
TF3CW	14030	2236	5	NH
UA1O/	14007	0127	10	KY
UA0BDU	14021	0330	7	FL
UA1OIL	14026	1912	8	NH
UA1OIL	14005	2323	12	PA
UI8ACQ	14021	0316	8	MT
UI9ACL	14007	0243	11	FL
UI9ACP	14007	0258	11	FL
UL7GDX	14036	0252	11	FL
UL7MO	14007	0518	11	CA
UL7RDW	14050	0247	11	FL
VK9NL	14065	1200	8	OH
VU2IOC	14006	1300	8	FL
VU2TEC	14013	1323	10	FL
VU2TEC	14018	0238	11	FL
YN3CC	14005	0016	17	FL

20 Meter SSB

5V7TM	14183	2206	7	KY
6W1NQ	14173	0014	13	CA

7X5ST	14256	0647	10	MT
9H3JM	14185	1455	12	CA
9H3JM *	14185	1535	12	CA
A22BW *	14195	1500	3	MT
A22RB	14160	2335	7	MT
A4XKC *	14172	1310	10	IL
AP2DM	14200	0219	10	MT
EP2DL *	14210	1449	9	AZ
FH4EE	14203	0311	15	MA
FH8CB	14163	2331	3	MT
KC4AAA	14247	0500	9	NY
OD5VT	14252	0623	10	NY
OD5VT	14226	1430	9	CA
TF3CW	14200	0114	8	CA
TU2JL	14184	0417	13	MA
UH8AAC	14225	0345	9	MT
UI8CD	14244	0252	10	OR
UI8FM	14245	0249	9	MT
UI8QZ	14207	0330	13	CA
UL7GM	14222	0249	8	MT
UL7JC	14193	0313	8	MT
UL7MW	14226	0314	10	CA
VR6ID	14245	0310	10	CA
VU2AU	14191	0148	2	MI
VU2CK	14212	0230	8	MT
Y88POL	14160	0027	30	BC

17 Meters

6Y5IC	18111	2353	29	NS
FY5AU	18110	2050	3	NS
J6LQC	18110	2023	3	NS
LU7ER	18125	2254	11	NS
ON4ABB	18111	1822	30	NS
VK7KO	18110	0121	3	NS
VP2EHF	18110	1256	30	NS
ZL1ACW	18110	2329	3	NS
ZS6GG	18115	1732	1	NS

15 Meter CW

7X4VUK	21003	1351	11	IL
9M2FS	21025	0204	5	CA
C53GS	21004	2310	8	OR
EL7X	21010	2205	8	LA
HZ1AB *	21017	1554	4	CA
TR8JLD	21020	1738	10	LA
UA1OT	21025	2027	6	FL
				Franz Josef Land
VU2BK	21033	1419	12	VT
ZD8BOB	21028	2116	11	KS
ZD8IAN	21052	1840	2	NH

15 Meter SSB

3X1SG	21331	2159	10	CT
5V7TM	21214	2042	13	MA
FK8EB	21335	853	8	NJ
LU5EAS/Z	21295	1921	3	KY
				South Orkneys
S01MZ	21230	2050	7	KS
S92LB	21289	2025	12	PA
SV5TS	21251	1447	10	CT
TL8JL	21345	1950	12	NY
TR8RLA	21254	2135	12	PA
V85HG	21285	2311	1	FL

12 Meters

BY4WNG	24903	0124	4	CA
GJ3EML	24895	1445	10	CT
KX4GL	24950	2340	3	CA
VU2ZAP	24945	0146	4	CA

10 Meter CW

3C1MM	28017	1358	6	AL
3D2TB	28028	2235	3	FL
5T5CJ	28034	1842	10	CA
5T5CJ	28042	1550	10	CT
9J2BO	28025	1810	1	IA
9J2KF	28016	1600	4	NH
9Q5DX	28029	1828	17	FL

9Q5UN	28014	2050	3	FL
IU9ARI	28028	1340	17	FL
KX6DS	28040	2245	9	PA
P29PL	28007	2032	6	FL
SN7OKRA	28017	1436	17	FL
SV9ADH	28031	1255	11	MA
TA2D	28016	1602	17	FL
Z21FN	28023	1353	17	FL
ZD8BOB	28010	2020	12	PA

10 Meter SSB

5U7/	28610	1200	10	MA
TU4BR				
9Q5NW	28490	1200	11	MA
A4XKA	28548	1256	7	NH
A92BE	28493	1249	10	CT
BY4RB	28513	0008	6	TX
C9MKT	28595	1821	9	IL
EL2DK	28407	1255	7	IA
HK0HEU	28524	1746	3	KY
HL9OB	28435	2347	2	OH
J28CW	28550	1400	6	AL
KC6JC	28509	0045	4	TX
KX6DS	28895	2115	4	NY
OD5IM	28520	1430	13	MA
OX3ZM	28555	1911	10	NJ
S0RASD	28485	1840	12	BC
ST4/	28497	1504	9	IL
ON6BC				
SV5TS	28522	1555	9	IA
TA5C	28700	1307	10	CT
VS6UP	28540	2350	11	VT
YJ8NJS	28465	0010	6	AL

6 Meters

9H1BT	50103	1808	13	ME
CT1DTQ	50002	1557	12	ME
CT4KQ	50110	1419	30	NS
EA8/	50101	1608	12	ME
DJ3OS	50124	1630	12	NH
EI6AS	50113	1801	11	ME
F5QT	50119	1750	13	ME
G1XUS	50110	1505	30	NS
G2ANT	50110	1423	30	NS
G3CCH	50101	1739	11	ME
G3OHH	50114	1750	11	ME
G4PBP	50099	1801	11	ME
G8DKF	50110	1746	11	ME
GI6ATL	50110	1735	11	ME
GI8YDZ	50110	1505	30	NS
GM0EWX	50104	1737	11	ME
GM1KHU	50110	1430	30	NS
GW2HIY	50114	1752	11	ME
GW4LXO	50110	1423	30	NS
HC2FG	50120	1551	18	ME
HC5K	50110	1801	18	ME
KH6HI	50115	1928	11	CA
KH6VP	50119	1931	11	CA
OH8ABT	50105	1500	18	ME
P43AS	50110	1453	30	ME
PA0HIP	50110	1436	30	NS
PA0XMA	50110	1429	30	NS
PZ1AP	50110	1535	15	ME
TI2HZ	50115	1520	18	ME
TI7TE	50115	1517	30	ME

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Calendar

Issue 468 - December 23, 1988

(Changes and hot info in boldface.)

Algeria - 7X	7X3DA 40M CW 0630-0730Z	I466	New Caledonia - FK	FK8FN 10M CW 2000Z	I465
American Samoa	KH8/IK2GNW Dec. 27-Jan. 8	I468	Niger - 5U	TU4BR/5U7 3790-3802 0500Z	I467
Antarctica	KC4AAA 14240-250 04-0600z	I463		by DJ6SI Dec. 26-Jan 1	I465
	Y88POL 20M SSB 0030Z	I466	Papua New Guinea	P29KN 28595 0100Z	I465
Aruba - P40	P40T M/S ARRL SSB	I467	Rwanda - 9X	9X5AA 15M CW 2000Z	I465
Ascension - ZD8	ZD8IAN 7007 0530Z	I467	St. Vincent - J8	J8DX ARRL CW, SSB	I467
Bahrain - A9	A92BE 3795 kHz 0130Z	I468	South Shetlands	EA0BAE Jan 10-Apr 10	I465
Barbados - 8P	8P9EM by G3VBL to Jan. 2	I468		7 up on CW, 7043, 14233, 21245	
Botswana - A2	A22FN 15M SSB 2100Z	I467	Sri Lanka - 4S	4S7EA 14010 2330Z	I466
Canary Islands - EA8	DL3OS/EA8 to Dec. 31	I468		by JAs Dec. 30-Jan. 3	I468
Cayman Is. - ZF2	ZF2NF Dec. 27-30, 28455 kHz	I466		4S7TP 20M CW 0100Z	I466
Cayman Brac - ZF9	ZF2/ZF9 by W2YG Dec. 26-Jan 3	I467	Sudan - ST	ST2KR 20M CW 2200Z	I466
Chagos - VQ9	VQ9QM 21035-40 1430Z	I465		ON6BC/ST4 25 kHz up, 3500	I466
China - BY	BY4RB 7006 kHz 0600Z	I468	Swaziland - 3DA0	by ZS6BCR Dec. 27-Jan 1	I467
Egypt - SU	SU1EE 7026/7005 kHz 00, 0430Z	I468	Tanzania - 5H	5H1HK 3507 2145Z	I465
	SU1EK 28600 1300Z	I467	Trisan da Cunha - ZD9	ZD9BV 28466 kHz 1600Z	I467
Gabon - TR	TR8SA 28560 kHz 2100Z	I465	Turkoman - UH	UH8AAC 20M SSB 0145Z	I467
Guinea-Bissau - J5	J52US 1832 kHz 0030Z	I466	Turks & Caicos - VP5	VP5/G0AZT, AA5AU Jan. 12-19	I466
Hong Kong - VS6	VS6DO 1826/3504 1145Z	I468		K2PZ, N2FGE, KN2N Feb. 4-11	I468
India - VU	Low Bands Jan. weekends	I468	Uzbek - UI8	UI9AAB 20M CW 0230Z	I465
Ivory Coast - TU	TU2JL 20M SSB 0400Z	I468		UI8FM 20M SSB 0330Z	I465
	TU4CO 7010 0700Z	I468	Vatican - HV	HV3SJ 21290 1545Z	I467
Jan Mayen - JX	JX1UG to March	I457	Zaire - 9Q	9Q5DX 14015 2230-2330Z	I464
Laccadives - VU7	Dec. 15-March 30	I465	Zone 2 - VO2	VE2EDK/VO2 Dec. 22-29	I467
Lebanon - OD	OD5VT 3793 0300Z or 2100Z	I467	Zone 23 - RV0Y	RV0YF 20M CW 00-0200Z	I467
Lesotho - 7P8	7P8DP 15M SSB 1845Z	I467		DX Activities and Contests	
Malagasy - 5R	5R8AL late January	I466	<u>Date</u>	<u>Event or Activity</u>	<u>Info</u>
Maldives - 8Q	8Q7BX Dec. 23-Jan 2 CW	I466	Dec. 31	DXCC Golden Jubilee deadline	QST
Malta - 9H	9H3JM by Colvins now	I468	Jan. 7-8	ARRL RTTY Contest	QST
Marion Is. ZS8	ZS8MI April 1989	I465	Jan. 27-29	CQWW 160 Meter Contest	CQ
Marquesas - FO	FO0FB early March	I467		Contributors	
Mauritius - 3B	3B8CF 14035 0230Z	I468	This Issue of <u>The DX Bulletin</u> would not have been		
Mellish Reef - VK9	by VE3IEO Jan 6-16	I464	possible without the invaluable assistance of the following:		
	1827/32 kHz on 160	I467	KH6BZF, SESC,, AB8K, K1IK, K2EK, K2PEQ, K4MF,		
Minami Torishima	JH7EAY/JD1 for six months	I464	K5WGQ, K6FD, K7ABV, K7JA/6, K7SLI, K8NEU, KA1BSZ,		
Mongolia - JT	JT1BG 15M SSB 0030Z	I463	KA1XN, KA4YAE, KA6A, KA7T, KC7V, KD7SO, KE7X,		
Montserrat - VP2M	VP2M/F2JD now on CW	I466	KI8W, KM1E, KM9J, KV4AM, N1HN, N2GLH, N2HLZ,		
	VP2MU SSB by AA4NC	I467	N4XR, N6IBP, N6IG, NS7Z, VE1YX, VE3NN, VE7AHA,		
Mozambique - C9	C9MKT Jan. 13-15, 21335 1800Z	I467	W0RT, W1BFT, W1CYB, W1FV, W1NG, W1WAI, W3MFW,		
	14195 1600Z, 28595 1430Z	I466	W4VQ, W5FIX, W5LLU, W6AUG, W6JOX, W6MUS,		
Namibia - ZS3	ZS3Z CW late December	I466	W6ZH, W7AWA, WA4SAC, WA9AQE, WB2K, WB3AVN,		
	160, 80, 40, 6M	I467	WB4VKW, WB8SFF, WB8ZRL, WC6I, WJ7R, K4YT, K2PZ,		
Nepal - 9N	9N88C Dec. 25-Jan 5	I465	DL2GAC, K8NA, K1RH, KD0JL, W1AW, W1BIH, K2DOX,		
	03,13,33,133,233,333 kHz up	I467	W6BL, WK7Z, N9GMM, W6KG, W5ZPA, <u>DXPress</u> , <u>Japan</u>		
Netherlands Antilles	PJ9JT Jan. 10-April	I468	<u>DX News</u> , <u>DXNS</u> , and the NCDXC. Thanks for your help! -ed.		